

CE-EMC TEST REPORT

Prepared for:

Shenzhen Margotan Tech Co., Ltd.

12F, Bldg.A, Rongchao Binhai Mansion, Haixiu Road No.2021, Xin'an Str, Bao'an District, Shenzhen, China

Product: Facial Cleansing Brush LED & EMS

Trade Name: N/A

Model Name: 1008

Date of Test: Apr. 22, 2020 - Apr. 28, 2020

Date of Report: Apr. 28, 2020

Report Number: HK2004160639-1ER

Prepared By:

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TEST REPORT VERIFICATION

Applicant : Shenzhen Margotan Tech Co., Ltd.

12F, Bldg.A, Rongchao Binhai Mansion, Haixiu Road No.2021,

Address : Xin'an Str, Bao'an District, Shenzhen, China

Manufacturer : Shenzhen Margotan Tech Co., Ltd.

12F, Bldg.A, Rongchao Binhai Mansion, Haixiu Road No.2021,

Address : Xin'an Str, Bao'an District, Shenzhen, China

EUT Description : Facial Cleansing Brush LED & EMS

(A) Model No. : 1008(B) Serial Model : N/A

(C) Power Supply : DC5V From Micro USB or DC 3.7V From Battery

Standards EN 55014-1:2017 EN 55014-2:2015

This device described above has been tested by HUAK, and the test results show that the equipment under test (EUT) is in compliance with the 2014/30/EU requirements. And it is applicable only to the tested sample identified in the report.

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Test Result..... Pass

Date of Test: Apr. 22, 2020 - Apr. 28, 2020

Prepared by:

Project Engineer

Reviewed by:

Project Supervisor

Approved by:



HUAK TESTING

Report No.: HK2004160639-1ER

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Revison	Description	Issued Data	Remark
Revsion 1.0	Initial Test Report Release	2020/04/28	James Zhou

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The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK,



1. TEST SUMMARY

Test procedures according to the tech	nnicai standards:			
	EMC Emission			
Standard	Test Item	Limit	Judgment	Remark
EN 55014-1	Conducted Emission	Class B	N/A	
EN 33014-1	Radiated Emission	Class B	PASS	
EN 61000-3-2	Harmonic Current Emission	Class A or D	N/A	
EN 61000-3-3	Voltage Fluctuations & Flicker		N/A	ESTING (
	EMC Immunity			
Section EN 55014-2	Test Item	Performance Criteria	Judgment	Remark
EN 61000-4-2	Electrostatic Discharge	BIANT	PASS	Kir
EN 61000-4-3	RF electromagnetic field	A	PASS	G
EN 61000-4-4	Fast transients	В	N/A	
EN 61000-4-5	Surges	B B	N/A	
EN 61000-4-6	Injected Current	A	N/A	ESTING
EN 61000-4-11	Volt. Interruptions Volt. Dips	C / C / C NOTE (3)	N/A	

NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) Voltage dip: 0% reduction Performance Criteria C

Voltage dip: 30% reduction - Performance Criteria C

Voltage dip: 60% reduction - Performance Criteria C

(3) For client's request and manual description, the test will not be executed.



1.1 TEST FACILITY

Shenzhen HUAK Testing Technology Co., Ltd.

Address: 1F, B2 Building, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, China

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1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 % $^{\circ}$

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
C01	ANSI	150 KHz ~ 30MHz	3.2	THE STING

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
⁶ A01	ANSI	30MHz ~ 1000MHz	4.7	CTING CTIN
900	KIE	1GHz ~6GHz	5.0	WAK TE



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Facial Cleansing Brush L	ED & EMS
Model Name	1008	MUAN LIAKTES TIMES
Serial Model	N/A	O HE.
Model Difference	N/A	- WAYTESTA
Product Description	Operating frequency: Connecting I/O port: Based on the application exhibited in User's Manu	n, features, or specification ual, the EUT is considered as an More details of EUT technical er to the User's Manual.
Power Source	DC Voltage	HARTE
Power Rating	DC5V From Micro USB o	r DC 3.7V From Battery



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Charging
Mode 2	Running

	For Conducted Test	
Final Test Mode	Description	
Mode 1	N/A	HUAKIL

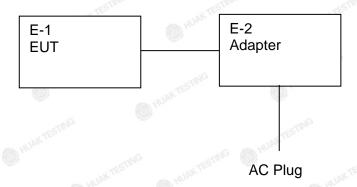
For Radiated Test				
Final Test Mode Description				
Mode 1	Charging			
Mode 2	Running			

		For EMS Test
	Final Test Mode	Description
	Mode 1	Charging
Ī	Mode 2	Running



2.3 DESCRIPTION OF TEST SETUP

Mode 1:



Mode 2:

E-1 EUT



2.4 DESCRIPTION TEST PERIPHERAL AND EUT PERIPHERAL

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Facial Cleansing Brush LED & EMS	N/A	1008	N/A	EUT
E-2	Adapter	HUAWEI	HW-051000CHQ	N/A	ESTIM
	(a)	W.C.		we a	
	.c. 9H	AK TES	G HUAK	(C)	-G- A
NYTEST	INC WAKTESTING	AK TESTING	WAK TESTING	AKTESTING	MAK TESTING
90.	0,	(a) House	0	0 m	
ESTING	STING	STNG	TSTING.	TSTNE	ESTING
	MAKE	HUAK	Wax.	HUART	HUAKTE
_m G		-m/G		-m/G	

Item	Shielded Type	Ferrite Core	Length	Note
	0	one (iii)		™G (II)
	, W	AK TEST	THE HUAK	(S)
, TEST	JG JAK TESTING (B)	V TESTING	JAK TESTING	V TESTING LOW TESTING
INSE	(a) Harris	MON.	(a) 100	O HOME
CTING	STING	STING	STING	STING STING
KTEE	HUAK TEL	HUAKTE	HUAKTE	HUAKTEE
.Ca				

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2)For detachable type I/O cable should be specified the length in cm in [Length] column.
- "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core". (3)



2.5 MEASUREMENT INSTRUMENTS LIST

2.5.1 CONDUCTED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	R&S	ENV216	HKE-002	Dec. 25, 2020
2	LISN	R&S	ENV216	HKE-059	Dec. 25, 2020
3	EMI Test Receiver	R&S	ESCI-7	HKE-010	Dec. 25, 2020

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2.5.2 RADIATED TEST SITE

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 25, 2020	
2	Horn antenna	Schwarzbeck	9120D	HKE-013	Dec. 25, 2020	
3TES	EMI Test Receiver	EMI Test Receiver R&S	ESCI-7	HKE-010	Dec. 25, 2020	
4	Spectrum Analyzer	Agilent	N9020A	HKE-048	Dec. 25, 2020	
5	Amplifier	EMCI	EMC051845 SE	HKE-015	Dec. 25, 2020	
6	Amplifier	Agilent	83051A	HKE-016	Dec. 25, 2020	

2.5.3 Disturbance Power TEST SITE

_			100				
	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
	1	EMI Test Receiver R&S		ESCI-7	HKE-010	Dec. 25, 2020	
	2	6DB Attenuator	Pasternack	6db	HKE-007	Dec. 25, 2020	
	3	Electromagnetic absorbing clamp	R&S	MDS 21	HKE-008	Dec. 25, 2020	

2.5.4 HARMONICS AND FILCK

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
IAK TES	Harmonic flicker tester	California Instruments	5001ix	HKE-037	Dec. 25, 2020

2.5.5 ESD

-	0.0	LOD	4 750				
Item K		Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
	1	ESD device	Schloder	SESD 216	HKE-023	Dec. 25, 2020	



2.5.6 RS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Signal generator	Agilent	83630A	HKE-028	Dec. 25, 2020
2	Signal generator Agilent N5182A H		HKE-029	Dec. 25, 2020	
3	Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Dec. 25, 2020
4	Power amplifier	wer amplifier R&S		HKE-058	Dec. 25, 2020
5	Power amplifier	R&S	NTWPA-106 0040E	HKE-035	Dec. 25, 2020

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2.5.7 SURGE, EFT/BURST, VOLTAGE INTERRUPTION/DIPS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Full-featured immunity tester	HTEC	HV1P16T	HKE-017	Dec. 25, 2020

2.5.8 INJECTION CURRENT

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1,,,,	Magnetic clamp	EMCL	EMCL-20	HKE-032	Dec. 25, 2020
2	Integrated Conduction Sensitivity Test System	Schloder	CDG6000	HKE-033	Dec. 25, 2020

2.5.8 MF

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power frequency induction coil	HTEC Instruments Ltd.	HPFMF	HKE-049	Dec. 25, 2020



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION (Frequency Range 150KHz-30MHz)

	At mains terminals		At load terminals and additional terminals	
Frequency Range				
(MHz)	Quasi-peak	Average	Quasi-peak	Average
	(dBuV)	(dBuV)	(dBuV)	(dBuV)
0.15 -0.5	66 - 56 *	56 - 46 *	80.00	70.00
0.50 -5.0	56.00	46.00	74.00	64.00
5.0 -30.0	60.00	50.00	74.00	64.00

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3.1.2 MAINS TERMINALS OF TOOLS

Frequency Range	Rated moto exceedir	r power not ng 700W	Rated motor power above 700W and not exceeding1 000 W		Rated mo above 1	•
(MHz)	dB (uV) Quasi-peak	dB (uV) Average**	dB (uV) Quasi-peak	dB (uV) Average**	dB (uV) Quasi-peak	dB (uV) Average**
0.15 -0.5	66.0 to 59.0*	59.0 to 49.0*	70.0 to 63.0*	63.0 to 53.0*	76.0 to 69.0*	69.0 to 59.0*
0.50 -5.0	59.0	49.0	63.0	53.0	69.0	59.0
5.0 -30.0	64.0	54.0	68.0	58.0	74.0	64.0

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) "**" If the limit for the measurement with the average detector is met when using a receiver with a quasi-peak detector, the equipment under test shall be deemed to meet both limits and the measurement using the receiver with an average detector need not be carried out.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



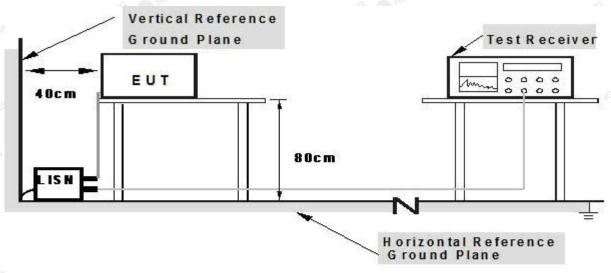
3.1.3 TEST PROCEDURE

a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

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- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISM.

2.Both of LISMs (AMM) are 80 cm from EUT and at least 80 from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.





3.1.6 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name. :	1008
Temperature:	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode:	N/A	Phase :	N/A
Test Voltage :	N/A		TING

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	At 10m	At 3m		
FREQUENCT (IVIIIZ)	dBuV/m	dBuV/m		
30 – 230	30	40		
230 – 1000	37	47		

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3.2.2 LIMITS OF DISTURBANCE POWER MEASUREMENT (Below 1000MHz)

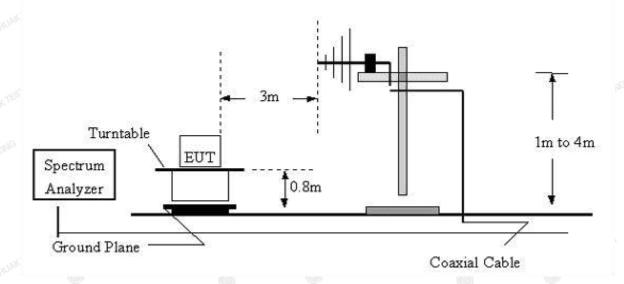
	760		No.				
		nold and ppliances	Tools				
Frequen cy Range			not exc	otor power ceeding) W	Rated motor power above 700 W and not exceeding 1 000 W		
(MHz)	dB (pW) Quasi- peak	dB (pW) Averag*	dB (pW) Quasi-p eak	dB (pW) Averag*	dB (pW) Quasi-p eak	dB (pW) Averag*	
30-300	44-55	35-45	44-55	35-45	49-59	39-49	

Notes:

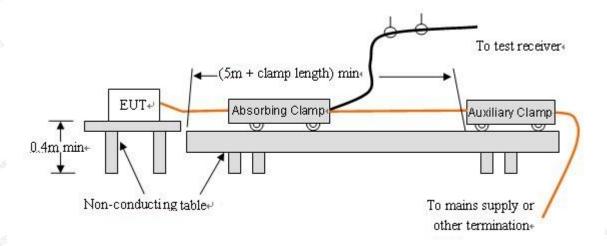
- (1) The limit for radiated test was performed according to as following: CISPR 14
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

3.2.3 TEST PROCEDURE

- a. The measuring distance of at 10 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured, above 1G Average detector mode will be instead.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP(AV) Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.



(B) Disturbance Power Test Set-UP Frequency Below 1GHz



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



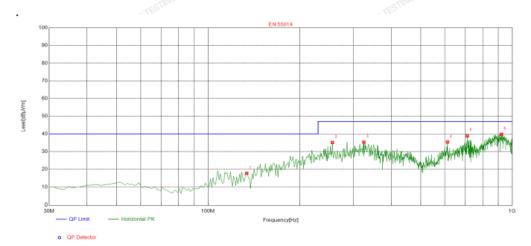
3.2.6 TEST RESULTS(30MHz-1000MHz)

Note:

All the test modes completed for test. only the worst result of was reported. as below:

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure :	1010 hPa	Test Date :	2020-04-26
Test Mode :	Mode 2	Polarization :	Horizontal
Test Power :	DC 3.7V From Battery		HUM

Report No.: HK2004160639-1ER

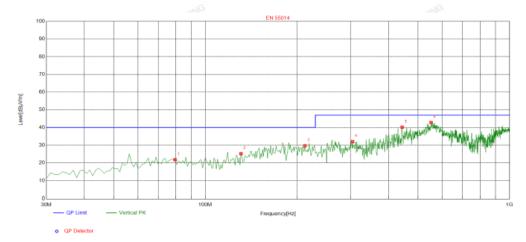


Suspected List

	Suspe	cted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dalasika
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	133.8939	-18.81	36.53	17.72	40.00	22.28	100	312	Horizontal
	2	256.2362	-13.47	48.63	35.16	47.00	11.84	100	76	Horizontal
	3	325.1752	-11.84	47.17	35.33	47.00	11.67	100	287	Horizontal
١	4	612.5826	-5.55	40.94	35.39	47.00	11.61	100	348	Horizontal
8	5	711.6216	-4.85	43.69	38.84	47.00	8.16	100	303	Horizontal
	6	921.3514	-1.80	41.59	39.79	47.00	7.21	100	261	Horizontal



EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure :	1010 hPa	Test Date :	2020-04-26
Test Mode :	Mode 2	Polarization:	Vertical
Test Power :	DC 3.7V From Battery	JUAN TES	WAKTES - WAKTES



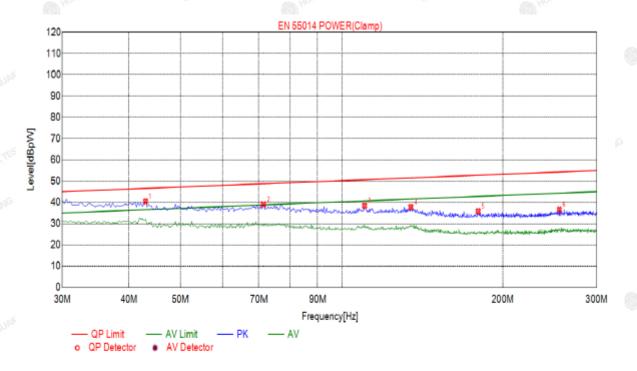
Suspected List

Suspected List									
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folarity
1	79.5195	-19.38	41.16	21.78	40.00	18.22	100	28	Vertical
2	130.9810	-18.63	43.84	25.21	40.00	14.79	100	288	Vertical
3	212.5425	-14.74	44.42	29.68	40.00	10.32	100	263	Vertical
4	304.7848	-12.68	44.69	32.01	47.00	14.99	100	144	Vertical
5	443.6336	-9.26	49.43	40.17	47.00	6.83	100	276	Vertical
6	552.3824	-6.89	49.72	42.83	47.00	4.17	100	12	Vertical



3.2.7 TEST RESULTS(30MHz ~300MHz)

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure :	1010 hPa	Test Date :	2020-04-26
Test Mode :	Mode 1		O
Test Power :	DC5V From Micro USB	ang	K TESTIL



Sus	Suspected Lis											
NO.	Freq. [MHz]	Level[d Bpw]	Factor [dB]	Reading [dBpW]	Limit [dBpw]	Margin [dB]	Detector	Туре				
1	42.9600	40.40	6.44	33.96	46.56	6.16	PK	Clamp				
2	71.3100	39.07	6.70	32.37	48.76	9.69	PK	Clamp				
3	110.1900	38.36	5.69	32.67	50.65	12.29	PK	Clamp				
4	134.4900	37.71	5.81	31.90	51.52	13.81	PK	Clamp				
5	179.8500	35.82	2.61	33.21	52.78	16.96	PK	Clamp				
6	255.4500	36.57	3.91	32.66	54.30	17.73	PK	Clamp				



3.3 HARMONICS CURRENT

3.3.1 LIMITS OF HARMONICS CURRENT

	IEC 555-2									
	Table -	I		Table -	Ш					
Equipment	Harmonic	Max. Permissible	Equipment	Harmonic	Max. Permissible					
Category	Order	Harmonic Current	Category	Order	Harmonic Current					
	n	(in Ampers)		n	(in Ampers)					
	Odd	Harmonics		Odd	Harmonics					
	3	2.30		3	0.80					
	5	1.14		5	0.60					
	7	0.77		7	0.45					
Non	9	0.40	TV	9	0.30					
Portable	11	0.33	Receivers	11	0.17					
Tools	13	0.21		13	0.12					
or	15≤n≤39	0.15 · 15/n		15≤n≤39	0.10 · 15/n					
TV	Even	Harmonics		Even	Harmonics					
Receivers	2	1.08		2	0.30					
	4 0.43			4	0.15					
	8	0.30								
	8≤n≤40	0.23 · 8/n		DC	0.05					

	EN 61000-3-2/IEC 61000-3-2										
	Equipment	Max. Permissible	Equipment	Harmonic	Max. Peri	missible					
	Category	Harmonic Current	Category	Order	Harmonic	Current					
(in Ampers)				n	(in A)	(mA/w)					
	Same as Limits Specified in 4-2.1, Table - I, but only odd		Class D	3 5 7 9 11 C	2.30 1.14 0.77 0.40 0.33 see Table I	3.4 1.9 1.0 0.5 0.35 3.85/n					
		harmonics required		13≤n≤39 only o	dd harmonics r						



3.3.1.1TEST PROCEDURE

a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.

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b. The classification of EUT is according to section 5 of EN 61000-3-2. The EUT is classified as follows:

Class A: Balanced three-phase equipment, Household appliances excluding equipment as

Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.

Class B: Portable tools. Portable tools.; Arc welding equipment which is not professional equipment.

Class C: Lighting equipment.

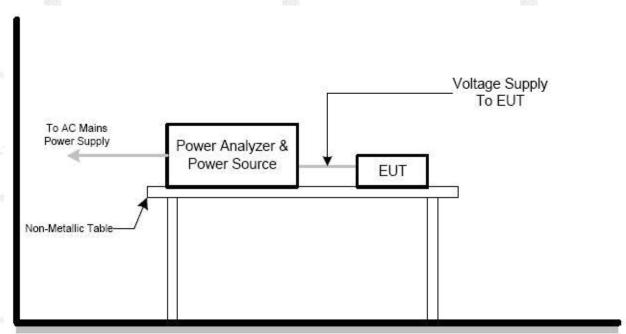
Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.

c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

3.3.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.1.3 TEST SETUP







3.3.2 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	N/A	Relative Humidity:	N/A
Pressure:	N/A	Test Date :	N/A
Test Mode :	N/A	D HO.	Hr. Hr.
Test Power :	N/A		anG

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by HUAK, this document cannont be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at http://www.cer-mark.com.

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Add: 1/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China



3.4 VOLTAGE FLUCTUATION AND FLICKERS

3.4.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKERS

Tests	Li	mits	Descriptions		
16212	IEC555-3	IEC/EN 61000-3-3	Descriptions		
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator		
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator		
dc	≤ 3%	≤ 3.3%	Relative Steady-State V-Chang		
dmax	≤ 4%	≤ 4%	Maximum Relative V-change		
d (t)	N/A	$\leq 3.3\%$ for $> 500~ms$	Relative V-change characteristic		

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3.4.1.1TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

b. Fluctuation and Flickers Test:

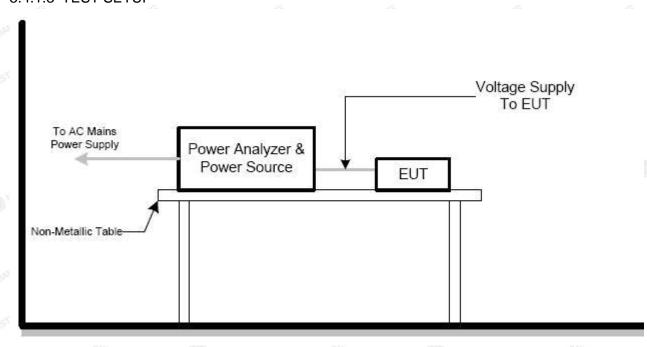
Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.

c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

3.4.1.2 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.1.3 TEST SETUP







3.4.2 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A	MAKTESIN	"IAN TEST"
Test Power :	N/A	9	

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Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4. EMC IMMUNITY TEST

4.1 STANDARD COMPLIANCE/SERVRITY LEVEL/CRITERIA

Tests Standard No.	TEST SPECIFICATION	Test Mode Test Ports	Perform. Criteria
1. ESD IEC/EN 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	B HUANTE
1EC/EN 61000-4-2	4KV HCP discharge 4KV VCP discharge	Indirect Mode	В
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz, 80%, AM modulated	Enclosure	A
3. EFT/Burst	5/50ns Tr/Th 5KHz Repetition Freq.	Power Supply Port	В
IEC/EN 61000-4-4	5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port	B. HARTES
4. Surges	1.2/50(8/20) Tr/Th us	L-N	В
IEC/EN 61000-4-5	1.2/50(8/20) Tr/Th us	L-PE MINITES N-PE	В
	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	CTL/Signal Port	A HANTESTING
5 Injected Current IEC/EN 61000-4-6	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	AC Power Port	THE A HARTEST
	0.15 MHz to 80 MHz, 1000Hz 80%, AM Modulated 150Ω source impedance	DC Power Port	A
6. Volt. Interruptions	Voltage dip 0%	0 110	С
Volt. Dips IEC/EN 61000-4-11	Voltage dip 60%	AC Power Port	C C



4.2 GENERAL PERFORMANCE CRITERIA

According to EN 55014-2 standard, the general performance criteria as following:

Criterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion B	After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state or stored data is allowed to persist after the test.
Criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.

4.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **2.3** Unless otherwise a special operating condition is specified in the follows during the testing.



4.4 ESD TESTING

4.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	B
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV (Direct)
	Contact Discharge: 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 20 times at each test point
	Contact Discharge: min. 20 at each test point
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

4.4.2 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.

If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

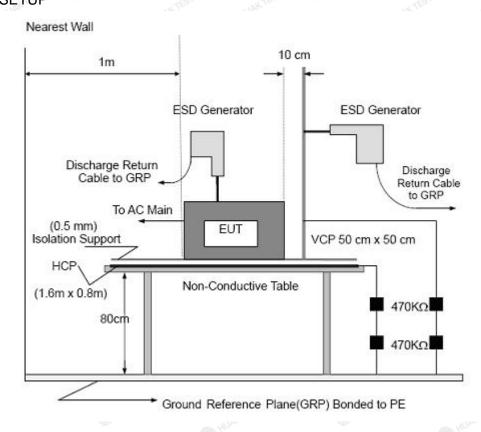
Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

b. Air discharges at insulation surfaces of the EUT.

It was at least ten single discharges with positive and negative at the same selected point.

4.4.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.



4.4.4 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	24.5 ℃	Relative Humidity:	55%
Pressure :	1010 hPa	Test Date :	2020-04-27
Test Mode :	Mode 1	3) "	
Test Power :	DC5V From Micro USB		TING

Report No.: HK2004160639-1ER

		Air Discharge						Contact Discharge					}			
Location	2ł	(V	4	ΚV	81	<v< td=""><td>12</td><td>ΚV</td><td>21</td><td>(V</td><td>4</td><td><v< td=""><td>6ł</td><td><v< td=""><td>81</td><td><v< td=""></v<></td></v<></td></v<></td></v<>	12	ΚV	21	(V	4	<v< td=""><td>6ł</td><td><v< td=""><td>81</td><td><v< td=""></v<></td></v<></td></v<>	6ł	<v< td=""><td>81</td><td><v< td=""></v<></td></v<>	81	<v< td=""></v<>
	Р	N	Р	N	βP	N	Р	N	Р	N	Pm	N	Р	N	Р	N
enclosure			- VI	AKTES					Α	Aup	Α	Α				
slot	Α	Α	Α	Α	Α	Α	G	d'	ESTING				ESTING		TES	Inc &
HCP	Dhy.				AN HI	Mr.	- 48	HUM	Α	Α	Α	A		(3)	N _F	
VCP									Α	Α	Α	Α				
Criteria			•	•	В	•	,	•		•		Е	3	•	•	
Result		STINE	>		Α	-CTING			STIME	3		F	TNG			CTING
Judgment		PASS								PA	SS					

Note:

- 1) +/- denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:
 - Direct / Indirect (HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at each point. Air discharges: Minimum 10 times (Positive/Negative) at each point.
- 3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated by photos shown in next page(s)
- 4) The Indirect (HCP/VCP) discharges description of test point as following: 1.left side 2.right side 3.front side 4.rear side
- 5) N/A denotes test is not applicable in this test report



4.5 RS TESTING

4.5.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-3
Required Performance	A MAY TESTA MAY TESTA
Frequency Range:	80 MHz - 1000 MHz, 1400 -2000MHz, 2000-2700MHz
Field Strength:	3 V/m, 1V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

4.5.2 TEST PROCEDURE

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

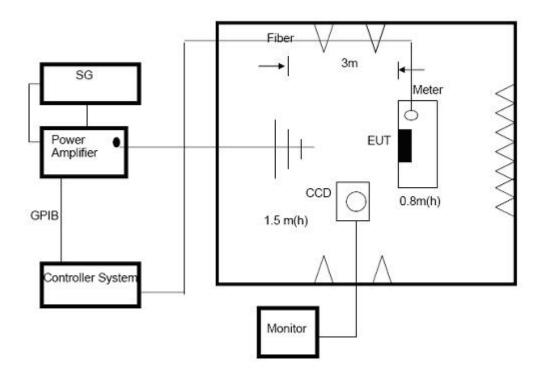
The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- a. The frequency range is swept from 80 MHz to 1000 MHz, & 1400MHz 2700MHz with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- b. Sweep Frequency 900 MHz, with the Duty Cycle:1/8 and Modulation: Pulse 217 Hz(if applicable)
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.



4.5.3 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.



4.5.4 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	24.5℃	Relative Humidity:	55%
Pressure:	1010 hPa	Test Date :	2020-04-27
Test Mode :	Mode 1		
Test Power :	DC5V From Micro USB		TING

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Frequency Range	RF Field	R.F.	Azimuth	Perform.	Results	Judgment
(MHz)	Position	Field Strength	/\Ziiiidtii	Criteria	results	ouagment
TESTING TESTING	MINAKTE	TSTING	Front	10	-ESTING	
MAKIL	0	3 V/m (rms)	Rear	HUAK	0	
80MHz - 1000MHz	H/V	AM Modulated		Α	Α	PASS
KTESTING WAY TESTIN	3	1000Hz, 80%	Left	LAKTES	W _G	
● HD.	● HO	(a) 14	Right	O HU		

Note:

- 1) N/A denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.



4.6 EFT/BURST TESTING

4.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4
Required Performance	B MAKTESTA
Test Voltage:	Power Line: 1 kV
	Signal/Control Line: 0.5 KV
Polarity:	Positive & Negative
Impulse Frequency:	5 kHz
Impulse Wave shape :	5/50 ns
Burst Duration:	15 ms
Burst Period:	300 ms
Test Duration:	Not less than 1 min.

4.6.2 TEST PROCEDURE

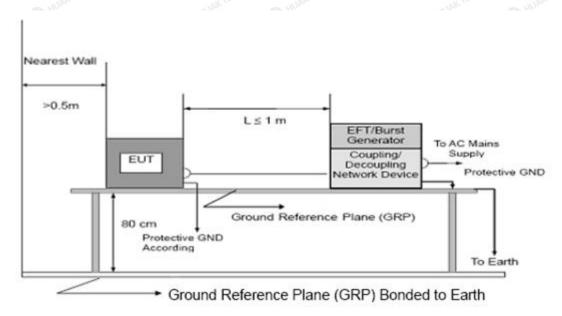
The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

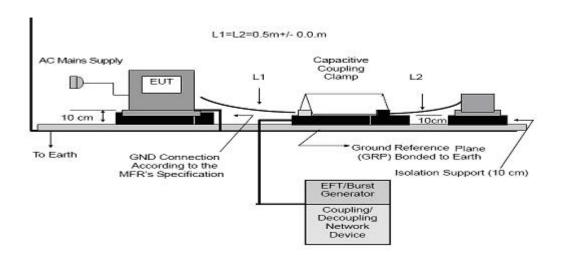
- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute



4.6.3 TEST SETUP



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Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.





4.6.4 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A STATE OF THE PROPERTY OF T
Test Mode :	N/A	3 " 6	Arr. Ohr
Test Power :	N/A		TING

Report No.: HK2004160639-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4.7 SURGE TESTING

4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5		
Required Performance	B MAKTESTA		
Wave-Shape:	Combination Wave		
	1.2/50 us Open Circuit Voltage		
	8 /20 us Short Circuit Current		
Test Voltage:	Power Line: 0.5 kV, 1 kV, 2 kV		
Surge Input/Output:	L-N, L-PE, N-PE		
Generator Source:	2 ohm between networks		
Impedance:	12 ohm between network and ground		
Polarity:	Positive/Negative		
Phase Angle:	0 /90/180/270°		
Pulse Repetition Rate:	1 time / min. (maximum)		
Number of Tests:	5 positive and 5 negative at selected points		

4.7.2 TEST PROCEDURE

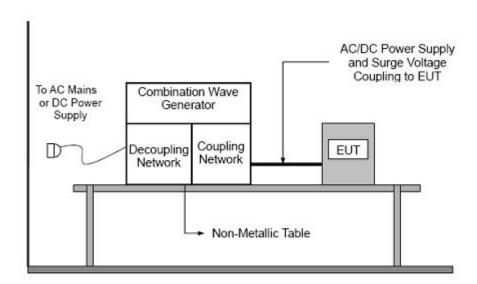
a. For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

- b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT: The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT:
- d. The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).



4.7.3 TEST SETUP



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4.7.4 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Power :	N/A		TING

Report No.: HK2004160639-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



4.8 INJECTION CURRENT TESTING

4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance	A MAY TESTING
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

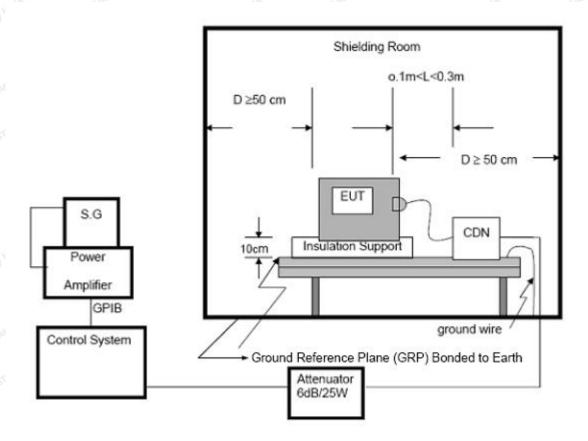
4.8.2 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- b. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.

4.8.3 TEST SETUP



NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.





4.8.4 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature :	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A CENTRAL MARKET STATE OF THE PARKET STATE S
Test Mode :	N/A	3) "	
Test Power :	N/A		TING

Report No.: HK2004160639-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode

4.9 VOLTAGE INTERRUPTION/DIPS TESTING

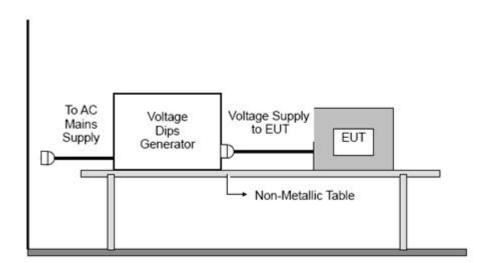
4.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11	
Required Performance	C (For 0% Voltage Dips)	
	C (For 30% Voltage Dips)	
	C (For 60% Voltage Dips)	
Test Duration Time:	Minimum three test events in sequence	
Interval between Event:	Minimum ten seconds	
Phase Angle:	0°/45°/90°/135°/180°/225°/270°/315°/360°	
Test Cycle:	3 times where a market a marke	

4.9.2 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

4.9.3 TEST SETUP







4.9.4 TEST RESULTS

EUT:	Facial Cleansing Brush LED & EMS	Model Name :	1008
Temperature:	N/A	Relative Humidity:	N/A
Pressure :	N/A	Test Date :	N/A
Test Mode :	N/A		
Test Power :	N/A		TING

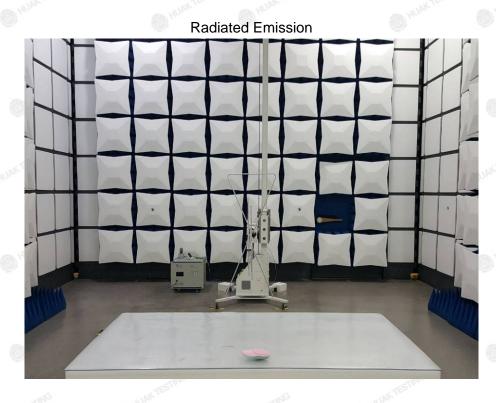
Report No.: HK2004160639-1ER

Note:

- 1) N/A denotes test is not applicable in this test report
- 2) There was not any unintentional transmission in standby mode



5. EUT TEST PHOTO



Disturbance Power





Electrostatic Discharge





TES'"

Report No.: HK2004160639-1ER

(CD)

ATTACHMENT PHOTOGRAPHS OF EUT

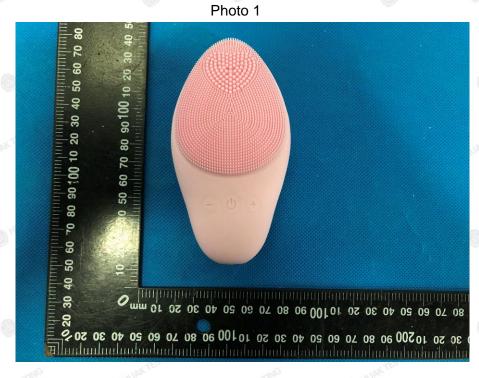
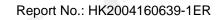


Photo 2









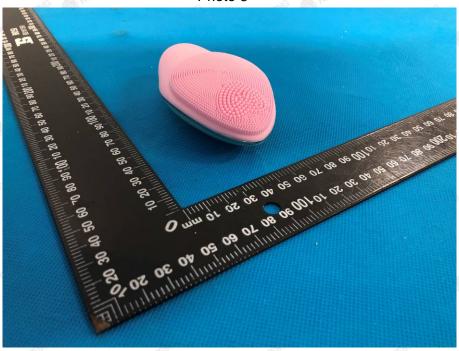


Photo 4







Photo 5



Photo 6



Photo 7

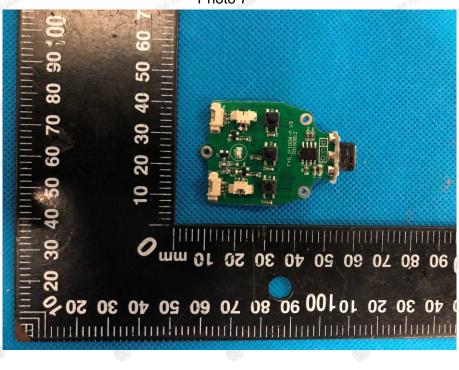


Photo 8

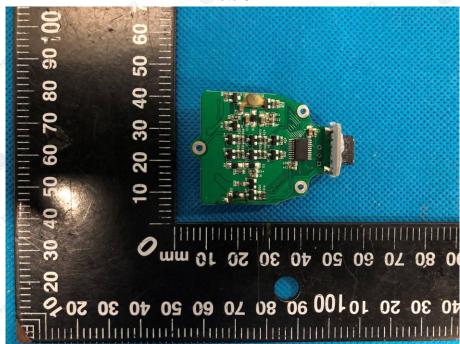




Photo 9

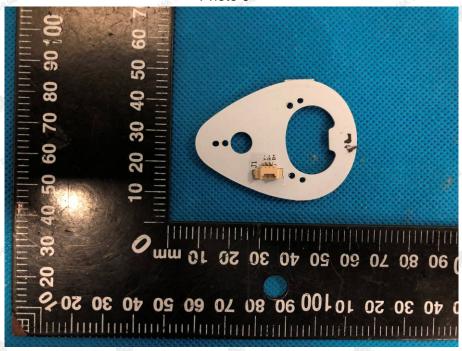


Photo 10

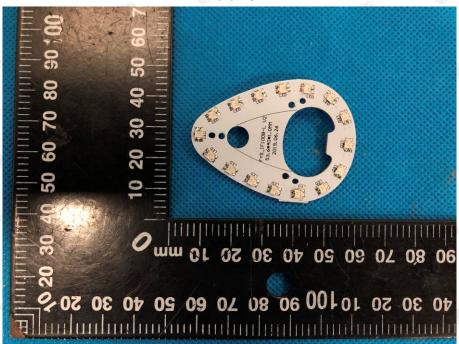
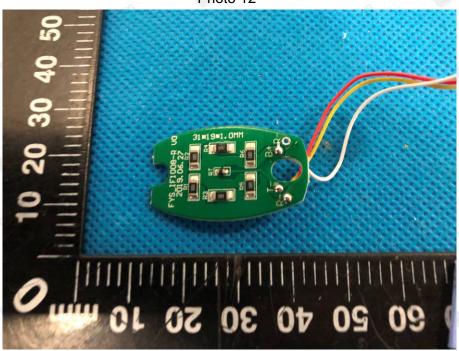






Photo 12



**** ** End of Report***